

YS125-Class I SERIES

160W



Features

- Energy efficiency level VI
- Class I Power Supply
- 3 Years Warranty
- Universal AC input/Full range
- No load power consumption < 0.21W
- Protections: Short Circuit /Over Load / Over Voltage
- -30~+70℃ wide range working temperature

Applications

- Oral irrigator
- Hemodialysis machine
- Medical computer monitors
- Sleep apnea devices
- Medical imaging scanners
- Physiological monitors



RoHS



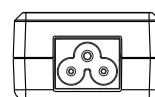
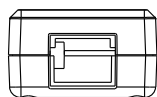
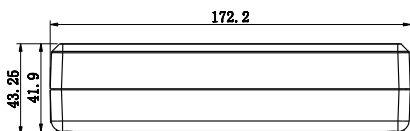
Model Description

YS125 - XXXYYYYY M - [] - M7B

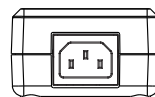
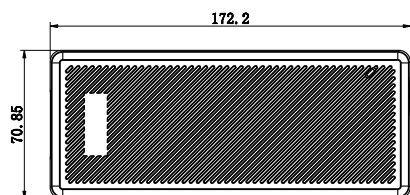
- DC Plug Type { M7B: standard model, KYCON KPPX-4P equivalent
Other options available by customer requested (see Page3-5)
- AC Plug Type: C6/C14
- Medical Type
- Output Current
- Output Voltage
- Series Name

Dimensions and installation

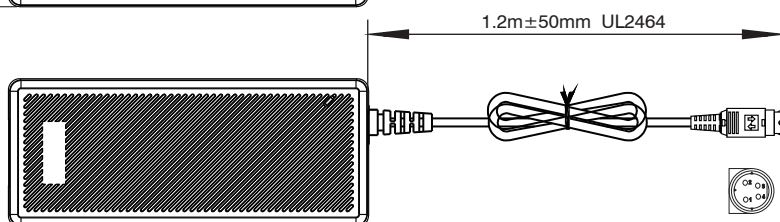
(Unit: mm , tolerance: ±1mm)



C6



C14



Standard Cable	1.2m UL2464 (Option: UL2468, UL1185)
12 ~ 15V	16AWG
19 ~ 24V	18AWG
48V	20AWG

File last modification time: 2025-3-24

Specification

Model	Order P/N	YS125-12011500M -C6-M7B	YS125-15010660M -C6-M7B	YS125-19008420M -C6-M7B	YS125-24006660M -C6-M7B	YS125-48003330M -C6-M7B
	Safety Model No.	YS125-12011500M	YS125-15010660M	YS125-19008420M	YS125-24006660M	YS125-48003330M
Output	DC Voltage	12V	15V	19V	24V	48V
	Rated Current	11.5A	10.66A	8.42A	6.66A	3.33A
	Rated Power	138W	160W	160W	160W	160W
	Ripple & Noise(max.)	100mVp-p	150mVp-p	200mVp-p	300mVp-p	400mVp-p
	Voltage Tolerance	±5%	±5%	±5%	±5%	±5%
	Line Regulation	±3%	±3%	±3%	±3%	±3%
	Load Regulation	±5%	±5%	±5%	±5%	±5%
	Setup,Rise,Hold up Time	1.0s,15ms,35ms/230VAC(at full load)1.0s,15ms,25ms/115VAC(at full load)				
Input	Rated Voltage Range	100-240VAC				
	Voltage Range	90-264VAC				
	Frequency Range	50/60Hz				
	AC Current	2.0A/115VAC1.1A/230VAC				
	Inrush Current	Cold Start 60A/200us at 230VAC 50HzCold Start 40A/200us at 115VAC 50Hz				
	Leakage Current	<0.1mA/230VAC				
	Efficiency	89%	89.5%	89%	90.5%	91.5%
	No Load Power Consumption	<0.21W				
Protection	Over Load	105~150% Hiccup mode, recovers automatically after fault condition is removed.				
	Short Circuit	Shut down o/p voltage, re-power on to recover.				
	Over Voltage	120~180% Shut down o/p voltage, re-power on to recover.				
Ambient	Working TEMP.	-30 ~ +70 ℃ (Please refer to “Derating Curve”section)				
	Working Humidity	20 ~ 95%RH Non-condensing				
	Storage TEMP. Humidity	-40 ~ +85 ℃, 10 ~ 95%RH Non-condensing				
	TEMP. Coefficient	±0.03%/(0 ~ 40 ℃)				
	Vibration	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes				
Safety	Safety Standards	ANSI/AAMI ES60601-1, EN60601-1				
	Withstand Voltage	I/P-O/P: 4KVAC/1min I/P-FG: 2KVAC/1min O/P-FG: 0.5KVAC/1min				
	Isolation Resistance	I/P-O/P:100M Ohms / 500VDC / 25 ℃ / 70% RH				
EMC	EMC Emission	Parameter	Standard		Test Level	
		Conducted	EN55032(CISPR32)		CLASS B	
		Radiated	EN55032(CISPR32)		CLASS B	
		Harmonic Current	EN61000-3-2		CLASS B	
		Voltage flicker	EN61000-3-3		CLASS B	
	EMC Immunity	Parameter	Standard		Test Level	
		ESD	EN61000-4-2		Level 3, 8KV air, criteria A	
		Radiated Susceptibility	EN61000-4-3		Level 3, criteria A	
		EFT/Burest	EN61000-4-4		Level 3, criteria A	
		Surge	EN61000-4-5		Level 4, 2KV/L-N, criteria A	
		Conducted	EN61000-4-6		Level 3, criteria A	
		Magnetic Field	EN61000-4-8		Level 4, criteria A	
		Voltage Dips and interruptions	EN61000-4-11		> 95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods	
Others	Packing	550g/pcs; 42.5 x 22 x 20 cm; 20pcs/carton				
	Dimension (LxWxH)	172.2 x 70.85 x 43.25 mm				
	Plug and Cable	See page 3~5; Other type available by customer requested				
	MTBF	295.8Khrs min. MIL-HDBK-217F(25 ℃)				
Note	1. Tolerance: includes set up tolerance, line regulation and load regulation. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3.Line regulation is measured from low line to high line at rated load. 4.Load regulation is measured from 0% to 100% rated load. 5. All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 ℃ of ambient temperature. 6. De-rating may be needed under low input voltages. Please refer to “Static Characteristic” sections for details. 7. The power supply is considered as a component that will be operated in combination with final equipment.Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.					

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Feature Curves

1. Derating Curve

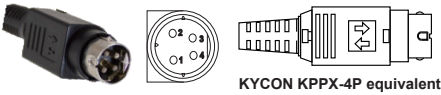


2. Static Characteristics

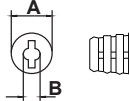
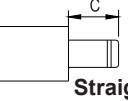


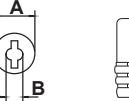
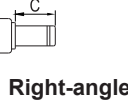
DC Output Plug (Option)

Standard Model : M7B

M7B		Pin Assignment	
	KYCON KPPX-4P equivalent	Pin No.	Output
		1	+Vo
		2	-Vo
		3	-Vo
		4	+Vo

Optional DC plug:
(Unit: mm , tolerance: ±0.5mm)

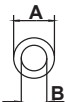
Tuning Fork Style			
Type No.	A	B	C
	OD	ID	L
D1I	5.5	2.1	9.5
D1J	5.5	2.1	11.0
D1L	5.5	2.5	9.5
D1M	5.5	2.5	11.0

Tuning Fork Style			
Type No.	A	B	C
	OD	ID	L
D1IR	5.5	2.1	9.5
D1JR	5.5	2.1	11.0
D1LR	5.5	2.5	9.5
D1MR	5.5	2.5	11.0

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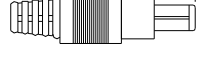
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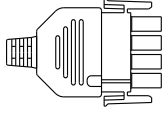
DC Output Plug (Option)

Barrel Style				Straight
Type No.	A	B	C	
	OD	ID	L	
D2I	5.5	2.1	9.5	
D2J	5.5	2.1	11.0	
D2L	5.5	2.5	9.5	
D2M	5.5	2.5	11.0	

Barrel Style				Right-angled
Type No.	A	B	C	
	OD	ID	L	
D2IR	5.5	2.1	9.5	
D2JR	5.5	2.1	11.0	
D2LR	5.5	2.5	9.5	
D2MR	5.5	2.5	11.0	

Neutrik XLR NC4FX equivalent			
Type No.	Pin Assignment		
	PIN No.	Output	
MIC4	1	+Vo	
	2	+Vo	
	3	-Vo	
	4	-Vo	

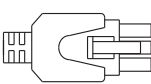
Center Pin Style				EIAJ equivalent
Type No.	A	B	C	D
	OD	ID	L	Center Pin
D4A	5.5	3.4	11.0	1.0
D4B	6.5	4.4	11.0	1.4
D4C	7.4	5.1	11.0	0.6

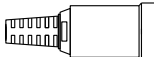
AMP 1-480702-0 (6.35mm) equivalent			
Type No.	Pin Assignment		
	PIN No.	Output	
M4P	1	+Vo	
	2	+Vo	
	3	-Vo	
	4	-Vo	

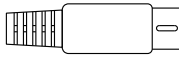
MIN.Din 3Pin with Lock(male)				KYCON KPPX-3P equivalent
Type No.	Pin Assignment			
	PIN No.	Output		
M6B	1	+Vo		
	2	-Vo		
	3	+Vo		

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DC Output Plug (Option)

MOLEX 39-01-2060 (4.2mm) equivalent			
Type No.	Pin Assignment		
	PIN No.	Output	
M6P	1	+Vo	
	2	+Vo	
	3	+Vo	
	4	-Vo	
	5	-Vo	
	6	-Vo	

MIN.Din 4Pin with Lock(female)			 KYCON KPJX-CM-4S equivalent
Type No.	Pin Assignment		
	PIN No.	Output	
M7BF	1	+Vo	
	2	-Vo	
	3	-Vo	
	4	+Vo	

Barrel Style	  	
Type No.	Pin Assignment	
	PIN No.	Output
M1B	1	-Vo
	2	-Vo
	3	+Vo
	4	-Vo
	5	+Vo

Stripped and tinned leads		
	Length of Land L1 by request YJ's standard length, L: 30 mm, L1: 5 mm NOTE: The wire color is for reference only, please refer to the actual product	
Type No.	Pin Assignment	
	PIN No.	Output
by customer	1	+Vo
	2	-Vo